

No. 870,865.

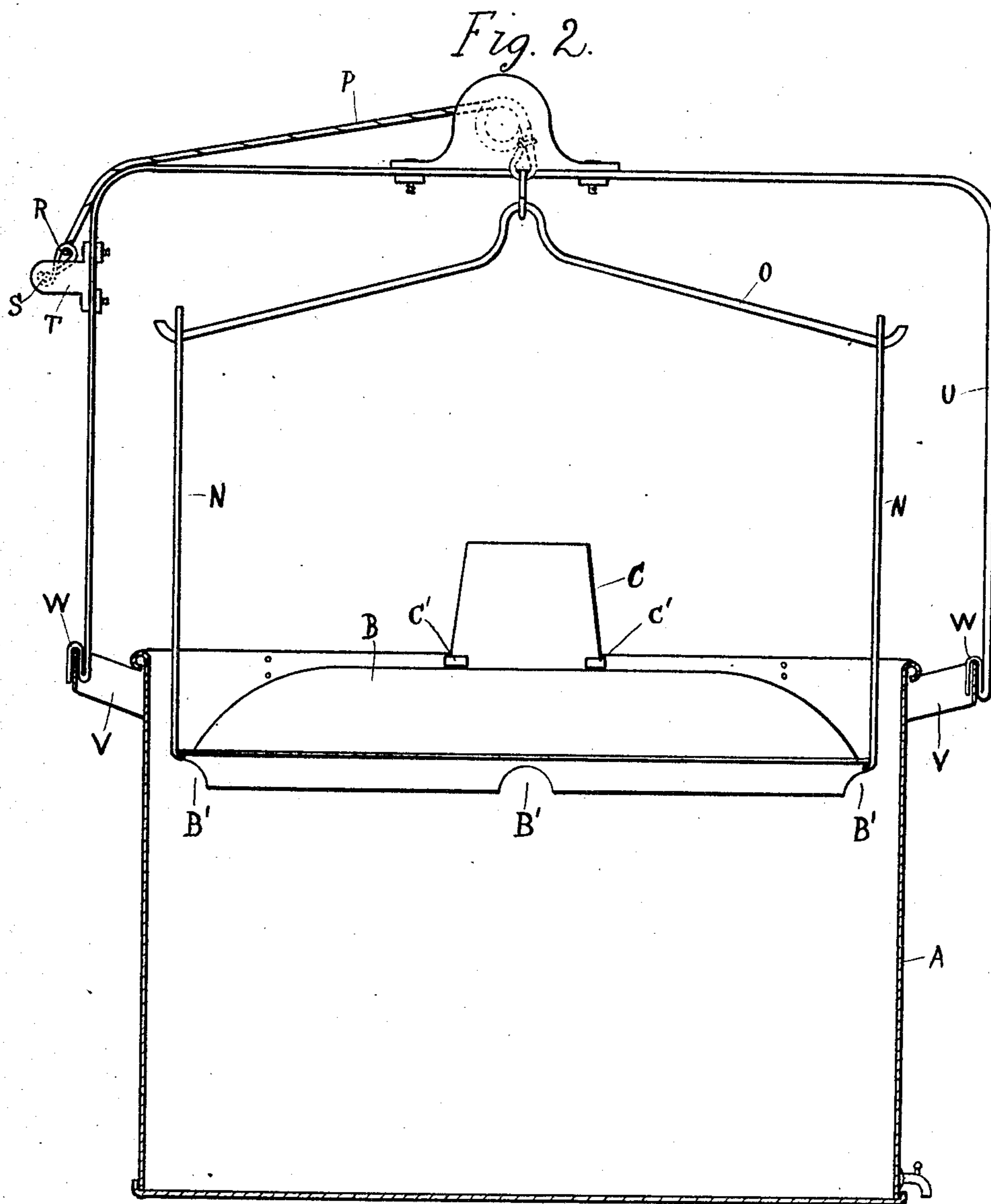
PATENTED NOV. 12, 1907.

J. H. BROWNLEE.

WASHBOILER.

APPLICATION FILED FEB. 12, 1907.

3 SHEETS—SHEET 2.



Witnesses
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J. Williamson

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James H. Brownlee
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3 SHEETS—SHEET 3.

Fig. 3.

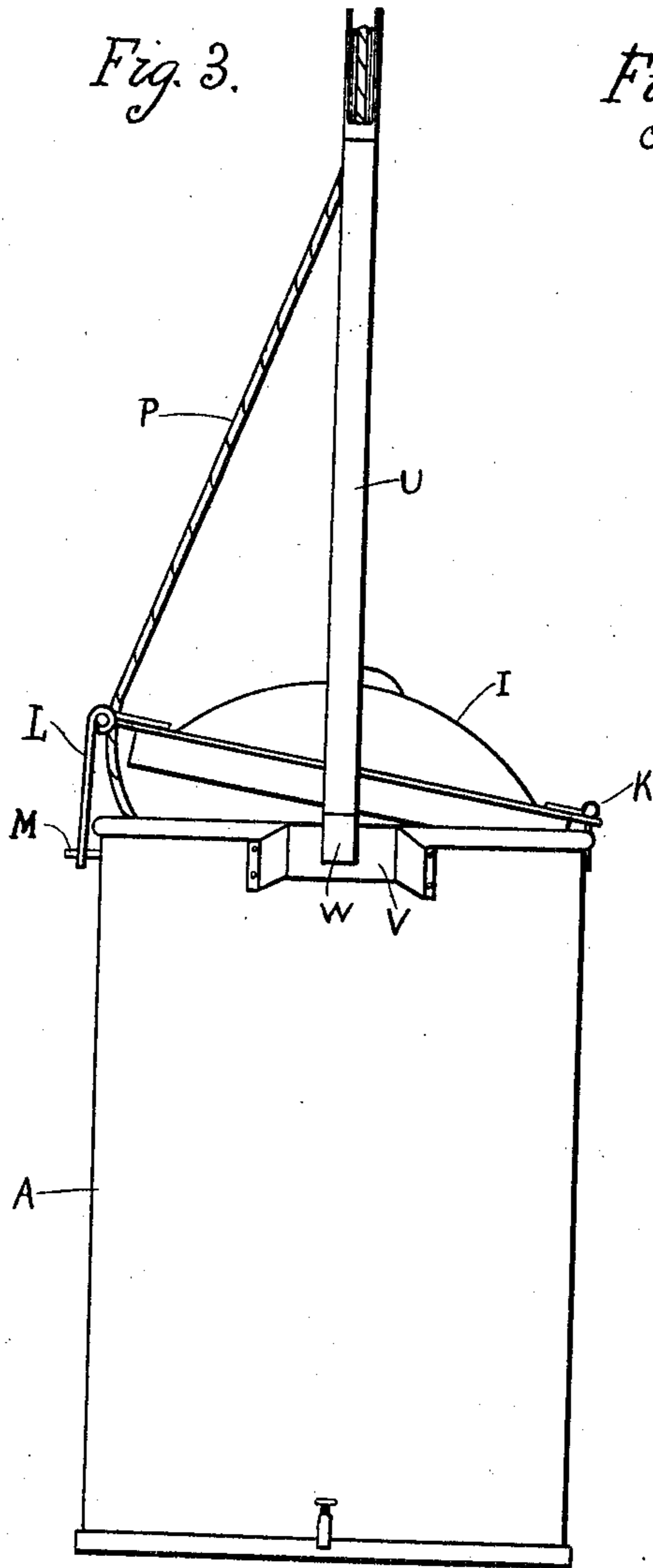


Fig. 4.

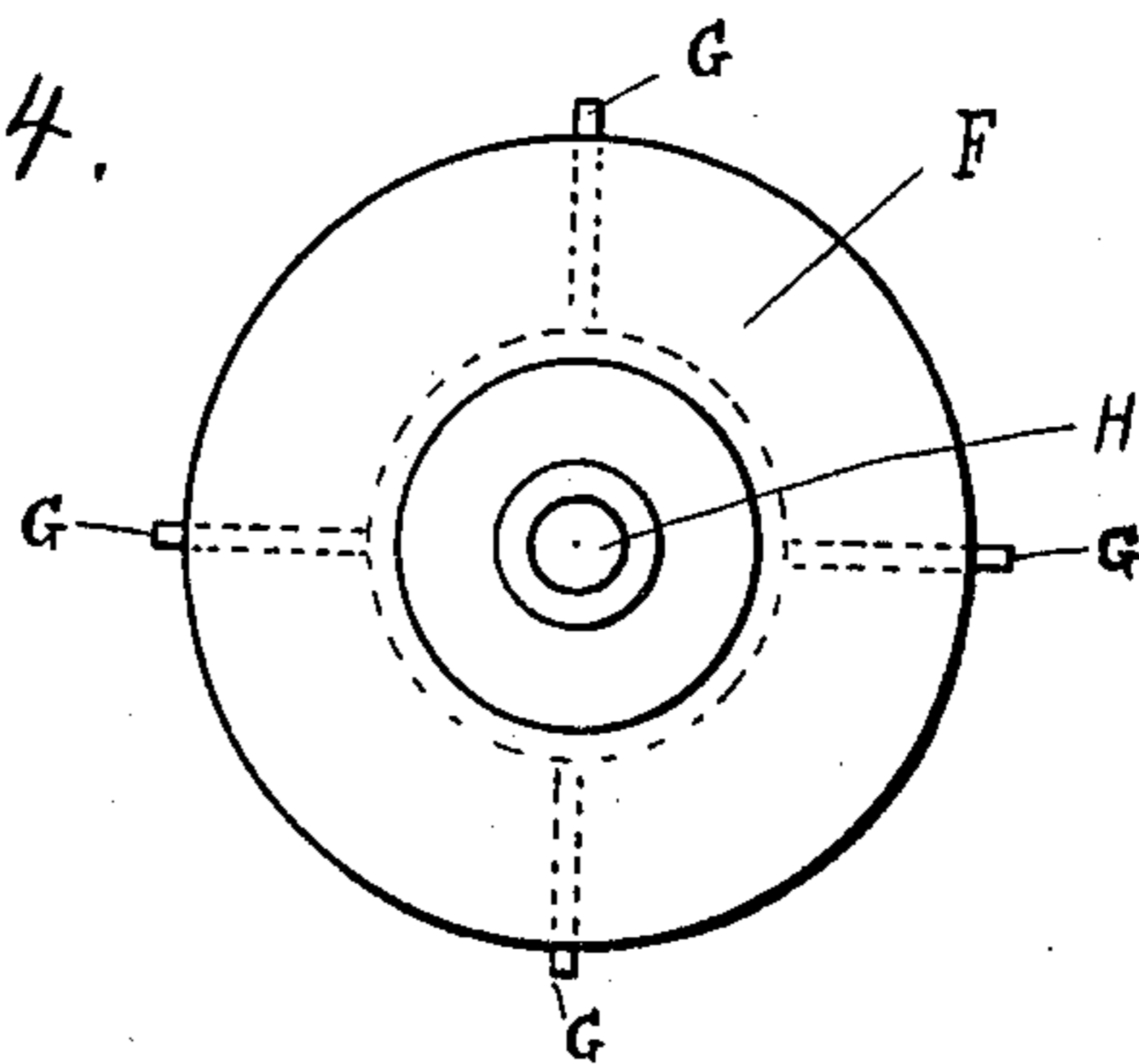
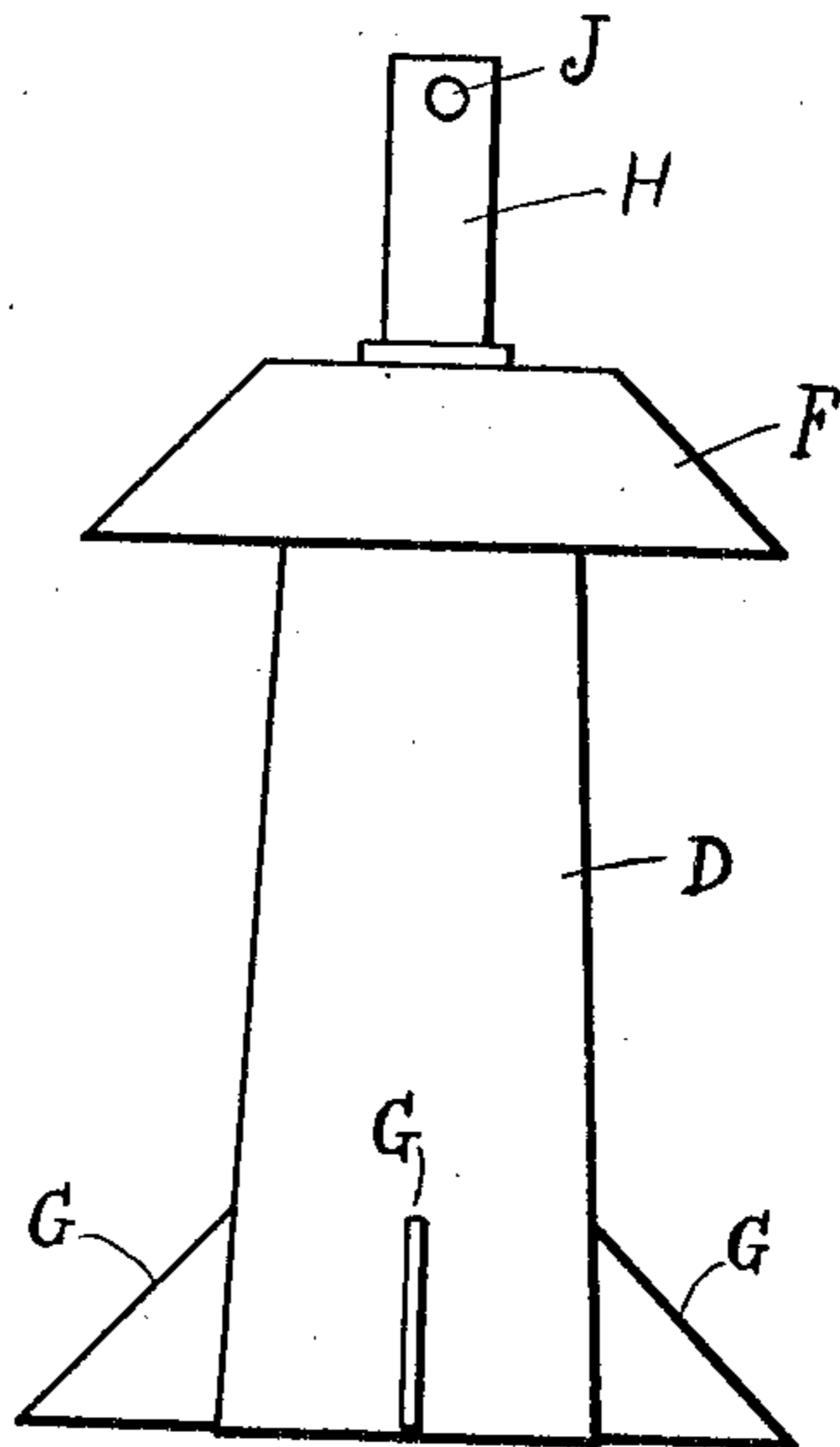


Fig. 5.



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UNITED STATES PATENT OFFICE.

JAMES H. BROWNLEE, OF PHILADELPHIA, PENNSYLVANIA.

WASHBOILER.

No. 870,865.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed February 12, 1907. Serial No. 356,968.

To all whom it may concern:

Be it known that I, JAMES H. BROWNLEE, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Combination Boilers and Washing-Machines, of which the following is a specification.

My invention relates to a new and useful improvement in combination boilers and washing machines, and has for its object to provide an exceedingly simple and effective construction by which an ordinary wash-boiler can be converted into a washing machine, and by the process of boiling the clothes will be thoroughly cleansed, and a further object of my invention is to provide simple and effective means for stirring during the process of boiling, and also for lifting the clothes within the boiler so that they may be readily removed therefrom without scalding or injuring the operator.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a vertical section of a boiler having my improvements applied thereto, showing the false bottom in its normal or lowered position. Fig. 2, a similar view showing the false bottom elevated so as to facilitate the removal of the clothes, said bottom being left in elevation. Fig. 3, an end view of the apparatus showing the hinged lid partially raised to permit the escape of steam. Fig. 4, a plan view of the uptake and stirrers. Fig. 5, an elevation of the same.

In carrying out my invention as here embodied, A represents a wash-boiler of ordinary construction, and B is a false bottom adapted to loosely fit therein, said bottom being concaved upon its under side, as clearly shown in Fig. 1, so as to form a considerable space into which water may readily flow through the openings B' formed in the flange of said false bottom, for the purpose hereinafter set forth. C represents a tapered tube leading from the under side of the false bottom, and D is an uptake which is also tapered, the lower end of which is tapered to fit over the tube C, and this uptake has secured to its upper end by means of the brackets E, the hood or spreader F. The result of this construction will be, that when clothes are placed within the boiler upon the false bottom, and water added thereto, the boiling of the water beneath the

false bottom will cause it to flow upward through the uptake D and coming in contact with the hood will be spread and distributed over the clothes in the form of a shower passing through the clothes and finally reëntering the false bottom to repeat the operation. This will thoroughly cleanse the clothes, and in practice, I place soap shavings or other washing compound in the tube C before putting the uptake in place, so that this washing compound will mingle with the water and add to its cleansing power.

In order that the position of the clothes within the boiler may be changed from time to time, I provide the stirrers G, which project from the uptake D, and secure a shank H to the top of the hood, said shank projecting through a suitable opening in the top I of the boiler, in order that a wrench or rod may be inserted in the hole J, formed in the shank, by means of which the uptake and consequently the stirrers may be revolved or oscillated, thus stirring the clothes.

The top I is hinged, as indicated at K to the boiler, and has pivoted to its bent edge a hasp L with suitable holes therein for engagement with the pin M, by which means the top may be secured in a partially open position for the escape of steam, thus preventing the water from boiling over.

One of the great disadvantages of utilizing a wash-boiler as a washing machine is the difficulty of removing the clothes therefrom without scalding or injuring the operator. This I overcome by securing the strips N to the false bottom and attaching a bail O to said strips, and connecting a rope or cord P to the bail, said rope passing over the pulley Q and having a hook R secured to its free end. By this arrangement when it is necessary to remove any or part of the clothing being washed, the top is swung back upon its hinges and the false bottom is elevated by drawing upon the rope P and engaging the hook R with the pin S set in the lug T, where the clothes may be left to drain, after which they may be readily removed.

U is the frame upon which the pulley Q is mounted, and the lower ends of this frame are so bent as to embrace the handles V of the boiler, as indicated at W. By which arrangement the frame may be attached to or detached from the boiler when not in use. If found necessary the stops C' may be used to prevent the uptake D from binding on the tapered pipe C.

Having thus fully described my invention, what I claim as new and useful, is—

The herein described combination of a boiler a false bottom adapted to fit therein and form a water space there

beneath, the flanges of said false bottom having openings
for the inflow of the water to said spaces, a tubular pro-
jection extending from the top of the false bottom, a stand-
pipe fitted upon said projection so as to revolve thereon,
5 stirrers projecting from the bottom of the standpipe, a
plurality of vertical brackets secured to the upper extrem-
ity of the standpipe, a hood secured to said brackets and
spaced from the top of the standpipe, a shank attached to
the hood and having a hole therein for the application of a

wrench for revolving the standpipe and a cover hinged to 10
said boiler provided with an orifice through which the
standpipe may extend.

In testimony whereof, I have hereunto affixed my signa-
ture in the presence of two subscribing witnesses.

JAMES H. BROWNLEE.

Witnesses:

A. L. HENLY,
H. BECKER.